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CLAIMS:

What is claimed is:

1   1.   A method for detecting incorrect cartridge
2   orientation in an automated media library, comprising:
3   reading label information from a cartridge label on
4   a cartridge; and
5   determining whether the cartridge is correctly
6   oriented based on the label information.

1   2.   The method of claim 1, wherein the label information
2   comprises at least one of a location of a barcode and
3   orientation of characters on the label.

1   3.   The method of claim 1, further comprising:
2   adding the cartridge to an orientation unknown list
3   if the cartridge is not correctly oriented based on the
4   label information.

1   4.   The method of claim 3, further comprising:
2   performing a retrieval operation on each cartridge
3   in the orientation unknown list; and
4   determining whether each cartridge is correctly
5   oriented based on success of the retrieval operation.

1   5.   The method of claim 1, further comprising:
2   performing a retrieval operation on the cartridge if
3   the cartridge is not correctly oriented based on the
4   label information; and

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5   marking the cartridge as incorrectly oriented if the

6   retrieval operation is not successful.

1   6.   A method for detecting incorrect cartridge

2   orientation in an automated media library, comprising:

3   reading a cartridge label on a cartridge;

4   determining whether the cartridge label is

5   unreadable or the cartridge is unlabeled;

6   performing a retrieval operation on the cartridge if

7   the cartridge label is unreadable or the cartridge is

8   unlabeled; and

9   marking the cartridge as incorrectly oriented if the

10   retrieval operation is not successful.

1   7.   The method of claim 6, further comprising:

2   determining whether the cartridge is correctly

3   oriented based on the cartridge label if the cartridge is

4   labeled and the cartridge label is readable.

1   8.   The method of claim 7, further comprising:

2   performing a retrieval operation on the cartridge if

3   the cartridge is not correctly oriented based on the

4   cartridge label; and

5   marking the cartridge as incorrectly oriented if the

6   retrieval operation is not successful.

1   9.   An apparatus for detecting incorrect cartridge

2   orientation for a cartridge in an automated media

3   library, comprising:

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4   an imaging interface that gathers cartridge label
5   information about a cartridge;
6   a label reader that determines whether the cartridge
7   label is unreadable or the cartridge is unlabeled based
8   on the cartridge label information; and
9   an operation component that performs a retrieval
10 operation on the cartridge if the cartridge label is
11 unreadable or the cartridge is unlabeled and marks the
12 cartridge as incorrectly oriented if the retrieval
13 operation is not successful.

1   10. The apparatus of claim 9, wherein the label reader
2   determines whether the cartridge is correctly oriented
3   based on the cartridge label information if the cartridge
4   is labeled and the cartridge label is readable.

1   11. The apparatus of claim 10, wherein the operation
2   component performs a retrieval operation on the cartridge
3   if the cartridge is not correctly oriented based on the
4   cartridge label information and marks the cartridge as
5   incorrectly oriented if the retrieval operation is not
6   successful.

1   12. An apparatus for detecting incorrect cartridge
2   orientation in an automated media library, comprising:
3   reading means for reading label information from a
4   cartridge label on a cartridge; and

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5   determination means for determining whether the
6   cartridge is correctly oriented based on the label
7   information.

1   13.   The apparatus of claim 12, wherein the label
2   information comprises at least one of a location of a
3   barcode and orientation of characters on the label.

1   14.   The apparatus of claim 12, further comprising:
2   means for adding the cartridge to an orientation
3   unknown list if the cartridge is not correctly oriented
4   based on the label information.

1   15.   The apparatus of claim 14, further comprising:
2   means for performing a retrieval operation on each
3   cartridge in the orientation unknown list; and
4   means for determining whether each cartridge is
5   correctly oriented based on success of the retrieval
6   operation.

1   16.   The apparatus of claim 12, further comprising:
2   means for performing a retrieval operation on the
3   cartridge if the cartridge is not correctly oriented
4   based on the label information; and
5   means for marking the cartridge as incorrectly
6   oriented if the retrieval operation is not successful.

1   17.   An apparatus for detecting incorrect cartridge
2   orientation in an automated media library, comprising:

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3   reading means for reading a cartridge label on a
4   cartridge;
5   determination means for determining whether the
6   cartridge label is unreadable or the cartridge is
7   unlabeled;
8   operation means for performing a retrieval operation
9   on the cartridge if the cartridge label is unreadable or
10   the cartridge is unlabeled; and
11   marking means for marking the cartridge as
12   incorrectly oriented if the retrieval operation is not
13   successful.

1   18.   The apparatus of claim 17, further comprising:
2   means for determining whether the cartridge is
3   correctly oriented based on the cartridge label if the
4   cartridge is labeled and the cartridge label is readable.

1   19.   The apparatus of claim 18, further comprising:
2   means for performing a retrieval operation on the
3   cartridge if the cartridge is not correctly oriented
4   based on the cartridge label; and
5   means for marking the cartridge as incorrectly
6   oriented if the retrieval operation is not successful.

1   20.   A computer program product, in a computer readable
2   medium, for detecting incorrect cartridge orientation in
3   an automated media library, comprising:
4   instructions for reading label information from a
5   cartridge label on a cartridge; and

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6   instructions for determining whether the cartridge
7   is correctly oriented based on the label information.

1   21.   A computer program product, in a computer readable
2   medium, for detecting incorrect cartridge orientation in
3   an automated media library, comprising:
4   instructions for reading a cartridge label on a
5   cartridge;
6   instructions for determining whether the cartridge
7   label is unreadable or the cartridge is unlabeled;
8   instructions for performing a retrieval operation on
9   the cartridge if the cartridge label is unreadable or the
10   cartridge is unlabeled; and
11   instructions for marking the cartridge as
12   incorrectly oriented if the retrieval operation is not
13   successful.